

Listing of Claims:

Claims 1-115 (Cancelled)

116. (Previously Presented) A powder batch comprising electroluminescent Y_2O_3 phosphor particles, wherein said particles have a weight average particle size of from about 0.3 μm to about 5 μm and have a substantially spherical morphology, wherein at least about 80 weight percent of said particles are not larger than about two times said average particle size and wherein the level of impurities in said particles is not greater than about 0.1 atomic percent.

117. (Cancelled).

118. (Previously Presented) A powder batch as recited in Claim 116, wherein said particles comprise a rare earth dopant.

119. (Previously Presented) A powder batch as recited in Claim 116, wherein said particles comprise Eu as a dopant.

120. (Previously Presented) A powder batch as recited in Claim 116, wherein at least about 90 weight percent of said particles are not larger than about two times said average particle size.

121. (Previously Presented) A powder batch as recited in Claim 116, wherein said particles are comprised of crystallites having an average crystallite size of at least about 25 nanometers.

122. (Cancelled)

123. (Previously Presented) A powder batch as recited in Claim 116, wherein said particles have the weight average particle size of from about 0.3 μm to about 3 μm .

124. (Previously Presented) A powder batch as recited in Claim 116, wherein said particles are comprised of crystallites having an average crystallite size of at least about 40 nanometers.

125. (Previously Presented) A powder batch comprising electroluminescent Y_2O_3 phosphor particles, wherein said particles have a weight average particle size of from about 0.3 μm to about 5 μm and have a substantially spherical morphology, wherein at least

about 80 weight percent of said particles are not larger than about two times said average particle size.

126. (Previously Presented) A powder batch as recited in Claim 125, wherein said particles have a weight average particle size of from about 0.3 μm to about 3 μm .

127. (Previously Presented) A powder batch as recited in Claim 125, wherein said particles are comprised of crystallites having an average crystallite size of at least about 25 nanometers.

128. (Previously Presented) A powder batch as recited in Claim 125, wherein said particles comprise Eu as a dopant.

129. (Previously Presented) A powder batch as recited in Claim 125, wherein at least about 90 weight percent of said particles are not larger than about two times said average particle size.

130. (Previously Presented) A powder batch as recited in Claim 116, wherein the level of impurities in said particles is not greater than about 0.01 atomic percent.

131. (Previously Presented) A powder batch as recited in Claim 125, wherein said particles are comprised of crystallites having an average crystallite size of at least about 40 nanometers.

132. (Previously Presented) A powder batch as recited in Claim 125, wherein said particles have a particle density of at least about 95 percent of the theoretical density for said particles.